

Comparisons of Job Characteristics

Focus Occupation: Stationary Engineers and Boiler Operators (51-8021)

Associated Occupation: Maintenance and Repair Workers, General (49-9042)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Stationary Engineers and Boiler Operators (51-8021)
Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	19.3	18.6	0	Current knowledge level may be sufficient
Building and Construction	4.0	14.3	9.2	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.0	10.6	<	Expanded education and/or training may be required
Design	5.2	11.7	8.9	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	10.3	10.4	0	Current knowledge level may be sufficient
Physics	4.3	8.8	9.6	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Stationary Engineers and Boiler Operators (51-8021)
Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	12.7	8.5	<<	Extensive development of skills in this area may be required
Repairing	3.4	12.3	8.5	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	10.0	9.2	0	Current skill level may be sufficient
Quality Control Analysis	5.9	9.8	8.4	<	A higher skill level may be required
Equipment Selection	3.3	9.5	6.5	<<	Extensive development of skills in this area may be required

Installation	1.7	8.3	3.1	<<	Extensive development of skills in this area may be required
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 75			
Focus Occupation: Stationary Engineers and Boiler Operators (51-8021) Associated Occupation: Maintenance and Repair Workers, General (49-9042)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Information Ordering	9.9	13.3	8.9	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	11.8	10.2	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.4	9.1	<	Some improvement in abilities may be required
Visualization	7.5	11.0	7.3	<<	Extensive improvement in abilities may be required
Static Strength	5.0	9.8	7.3	<<	Extensive improvement in abilities may be required
Extent Flexibility	4.8	9.2	6.4	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	5.8	3.6	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	5.6	5.1	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 78
Focus Occupation: Stationary Engineers and Boiler Operators (51-8021) Associated Occupation: Maintenance and Repair Workers, General (49-9042)		
Work Activities	Exclusivity of Activity	
Control HVAC equipment	89	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Install equipment or attachments on machinery or related structures	48	
Install/connect electrical equipment to power circuit	57	
Maintain or repair industrial or related equipment/machinery	39	
Use acetylene welding/cutting torch	54	
Use electrical or electronic test devices or equipment	40	
Use hand or power tools	2	
Weld together metal parts, components, or structures	54	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 82

Focus Occupation: Stationary Engineers and Boiler Operators (51-8021)
Associated Occupation: Maintenance and Repair Workers, General (49-9042)

Tools and Technologies	Exclusivity
Cleaning equipment	11
Computers	1
Content authoring and editing software	1
Cutting tools	18
Dispensing tools	6
Drilling and operation machinery	29
Electrical measuring and testing equipment	7
Forming tools	2
Heavy equipment components	21
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Network applications software	1
Personal communication devices	2
Pneumatic tools	8
Power tools	2
Pumps	9
Respiratory protection	6
Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.